BEGIN PROJECT STA. 112+76 END PROJECT STA. 118+37 LOCATION MAP LATITUDE: 39 °26'2.8" LONGITUDE: 84 °45' 33.7" SCALE IN MILES

OTHER ROADS DESIGN DESIGNATION

PORTION TO BE IMPROVED

CURRENT ADT (2021)	2,000
DESIGN YEAR ADT (2041)	2,600
DESIGN HOURLY VOLUME (2041)	340
DIRECTIONAL DISTRIBUTION	0.13
TRUCKS (24 HOUR B&C)	7%
DESIGN SPEED	35 MPH
LEGAL SPEED	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
05 - MAJOR COLLECTOR (RURAL)	
NHS PROJECT	NO

INTERSTATE HIGHWAY

FEDERAL ROUTES

COUNTY & TOWNSHIP ROADS

DESIGN EXCEPTIONS

NONE

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764

OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)

PLAN PREPARED BY:
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 8 PRODUCTION - BRIDGE OFFICE
505 SOUTH S.R. 741 LEBANON, OH 45036

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BUT-732-3.04

REILY TOWNSHIP
BUTLER COUNTY

INDEX OF SHEETS:

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BUT-732-0304	12-28

FEDERAL PROJECT NUMBER

E161 (44

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

REHABILITATION OF A BRIDGE CARRYING STATE ROUTE 732
OVER INDIAN CREEK IN REILY TOWNSHIP BY REMOVING
AND REPLACING EXISTING REINFORCED CONCRETE DECK
,REPLACING APPROACH SLABS, PROVIDING NEW BEARINGS
AND PAINTING ALL STRUCTURAL STEEL.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.14 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.13 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

			SUPPLE		SPECIAL PROVISIONS			
ENGINEER'S SEAL:	MGS-2.1 1/	19/18	DM-1.1 7/17/20			800-2019	7/16/21	WATERWAY PERMITS
ENGINEER 3 SEAL.	MGS-4.3 1/	18/13	DM-1.2 1/18/13			832	10/19/18	CONDITIONS BUT-SR 732-3.04
ATE OF OWNER			DM-4.3 1/15/16			846	4/17/15	DATE: 7/28/21
HIGTA OHIOM	BP-3.1 1/	17/20	DM-4.4 1/15/16			878	1/17/20	7,10,21
GARRET T. * FREEMAN E-83489	AS-2-15 1, DBR-2-73 7, DBR-3-11 7	18/19 19/02 /15/11	TC-61.10 1/17/20 TC-61.30 7/19/19 TC-65.10 1/17/14 TC-65.11 7/21/17					
		18/03						
GISTERE			MT-97.10 4/19/19					
M. Comments	GSD-1-19 1/	18/19						
ONAL			MT-101.60 1/17/20					
To the second			MT-101.90 7/17/20					
SIGNED: X			MT-105.10 1/17/20					
DATE:6/17/2021								

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY, AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON THE PLANS.

APPROVED Tammy Combell
DATE (22) 2021 DISTRICT DEPUTY DIRECTOR

APPROVED	
DATE	DIRECTOR, DEPARTMENT OF
	TRANSPORTATION



DESIGNER
GTF

REVIEWER
CAH 05/28/2
PROJECT ID
100829

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

BUTLER RURAL ELECTRIC COOPERATIVE, INC. 3888 STILLWELL-BECKETT ROAD OXFORD, OH 45056 513-867-4438 (RAY BRUNNER) RAYB@BUTLÈRRURAL.COOP

DUKE ENERGY - ELECTRIC (DISTRIBUTION) 2010 DANA AVE CINCINNATI OH 45207 513-514-8211 (AARON WRIGHT) AARON.WRIGHT@DUKE-ENEŔGY.COM

CINCINNATI BELL - AERIAL & PLACING 221 E. 4TH ST., BLDG. 121-900 CINCINNATI, OH 45201 513-565-6014 (ROB STROCHINSKY) ROBERT.STROCHINSKY@CINBELL.COM ROADPROJECTS@CINBELL.COM

CINCINNATI BELL - UNDERGROUND STRUCTURES 221 E. 4TH ST., BLDG. 121-900 CINCINNATI, OH 45201 513-565-7187 (OFFICE) BRECK.COWAN@CINBELL.COM ROADPROJECTS@CINBELL.COM

SOUTHWEST REGIONAL WATER DISTRICT 3640 OLD OXFORD HIGHWAY HAMILTON. OH 45013 513-863-0828 (TOM PUCKETT) PUCKETTT@SWWATER.ORG

CHARTER COMMUNICATIONS 10920 KENWOOD ROAD BLUE ASH. OHIO 45242 DL-SOUTHERN-OHIO-OUTSIDE-PLANT@CHARTER.COM 513-386-5499 (KENT RIEGER) KENT.RIEGER@CHARTER.COM

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS. FOLLOW ALL LOCAL NOISE ORDINANCE RESTRICTIONS. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

SOLE SOURCE AQUIFER

THIS PROJECT IS LOCATED WITHIN THE GREAT MIAMI SOLE SOURCE AQUIFER. USE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS. DO NOT STORE FUELS, TOXIC/HAZARDOUS MATERIALS, AND CHEMICALS NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. MAINTAIN A SPILL KIT ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. IMMEDIATELY MITIGATE ANY EVENT. SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. REPORT ALL SPILLS OR EVENTS TO BUTLER COUNTY WATER AND SEWER, (513) 887-3066. IF THE SPILL IS A REPORTABLE AMOUNT (PER OHIO EPA'S RELEASE REPORTING REQUIREMENTS), CONTACT REILY TOWNSHIP FIRE DEPARTMENT & EMS (STATION 131), (513) 756-0814 OR THE OHIO EPA'S SPILLS HOTLINE 1-800-282-9378 FOR CLEAN-UP OF THE SPILL

INDIANA BAT HABITAT

ENSURE IMPACTS TO THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT AND THE STATE LISTED AND PROTECTED LITTLE BROWN BAT AND TRICOLORED BAT ARE AVOIDED AND MINIMIZED. DO NOT REMOVE TREES FROM APRIL 1 THROUGH SEPTEMBER 30. PERFORM ALL NECESSARY TREE REMOVAL FROM OCTOBER 1 THROUGH MARCH 31. FOR THE PURPOSES OF THIS NOTE. A TREE IS DEFINED AS A LIVE, DYING. OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 7 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION. USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS MONUMENT TYPE: IRON PINS

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAV 88

HORIZONTAL POSITIONING

REFERENCE FRAME:

ELLIPSOID:

GRS 80

MAP PROJECTION: LAMBERT CONFORMAL CONIC OHIO STATE PLANE SOUTH ZONE (3402) COORDINATE SYSTEM.

NAD 83 (2011)

COMBINED SCALE FACTOR: 1.00000000

ORIGIN OF COORDINATE

SYSTEM: N=0 E=0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH

UNITS ARE IN U.S. SURVEY FEET.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT. DRILLED. OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

CLEARING AND GRUBBING, AS PER PLAN

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT. A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201. CLEARING AND GRUBBING. WORK TO BE INCLUDED IN THIS PAY ITEM IS TO INCLUDE THE REMOVAL OF ALL DEBRIS WITHIN THE VICINITY OF THE PIER

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SEEDING AND MULCHING 500 SQ. YD. 659. COMMERCIAL FERTILIZER 0.05 TON 0.1 ACRES 659. LIME 659. WATER 1.4 M. GAL

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

A+B BIDDING CONTRACT TABLE

USE THE FOLLOWING INFORMATION IN COMBINATION WITH THE PROPOSAL NECESSARY PERMITS AND APPROVALS AND TO TRANSPORT THE NOT 124 A+B BIDDING

THE CONTRACTOR WILL BID THE NUMBER OF CALENDER DAYS TO COMPLETE THE PROJECT AS LISTED IN THE PROPOSAL.

COMPLETE BRIDGE DECK REPLACEMENT, APPROACH PAVEMENT WORK, FIELD PAINTING OF STRUCTURAL STEEL AND OPEN TRAFFIC UP TO THE ORIGINAL CONFIGURATION (STRUCTURE NO.	LOCATION OF CRITICAL WORK	MINIMUM DAYS	MAXIMUM DAYS	INCENTIVE/E	Maximum Di skoænve /F \$
APPROACH PAVEMENT WORK, FIELD PAINTING OF STRUCTURAL STEEL 60 80 \$3,000 \$30,000 AND OPEN TRAFFIC UP TO THE ORIGINAL CONFIGURATION (STRUCTURE NO.	00 22.2 5502				
FIELD PAINTING OF STRUCTURAL STEEL AND OPEN TRAFFIC UP TO THE ORIGINAL CONFIGURATION (STRUCTURE NO.	,				
STRUCTURAL STEEL 60 80 \$3,000 \$30,000 AND OPEN TRAFFIC UP TO THE ORIGINAL CONFIGURATION (STRUCTURE NO.	PAVEMENT WORK,				
AND OPEN TRAFFIC UP TO THE ORIGINAL CONFIGURATION (STRUCTURE NO.	FIELD PAINTING OF				
UP TO THE ORIGINAL CONFIGURATION (STRUCTURE NO.	STRUCTURAL STEEL	60	80	\$3,000	\$30,000
CONFIGURATION (STRUCTURE NO.	AND OPEN TRAFFIC				
(STRUCTURE NO.	UP TO THE ORIGINAL				
,	CONFIGURATION				
·	(STRUCTURE NO.				
BUT-732-0304)	BUT-732-0304)				

ENVIRONMENTAL EXCLUSIONARY DATES (AQUATIC SPECIES)

TEMPORARY ACCESS FILLS PLACING FILL MATERIAL IN THE STREAM AS PART OF ITEM 503 - COFFERDAMS AND EXCAVATION BRACING SHALL NOT BE CONSTRUCTED FROM THE DATES BEGINNING 4/15 TO 7/1 AND ANY TEMPORARY ACCESS FILLS THAT FULLY SPAN THE ENTIRE WIDTH OF THE STREAM SHALL NOT BE CONSTRUCTED FROM THE DATES BEGINNING 9/15 TO 7/1. TEMPORARY ACCESS FILLS CONSTRUCTED OUTSIDE OF THESE EXCLUSIONARY DATES ARE PERMITTED TO STAY IN PLACE DURING THE EXLCUSIONARY PERIODS SET FORTH ABOVE. ANY WORK INVOLVING PLACEMENT OF FILL MATERIAL IN THE STREAM SHALL BE PERFORMED WITHIN THE DATES PROVIDED IN THE TABLE BELOW AND OUTSIDE OF THE EXCLUSIONARY DATES.

DESCRIPTION OF	CALENDER DAYS TO	WORK WINDOW					
WORK	COMPLETE	START	END				
CONSTRUCTION OF							
PART-WIDTH	137	3/1/2022	10/1/2022				
TEMPORARY ACCESS							
FILLS IN STREAM.							

PETROLEUM CONTAMINATED SOILS NOTES

ENVIRONMENTAL STUDIES HAVE SHOWN THAT THERE IS THE POTENTIAL FOR ENCOUNTERING PETROLEUM CONTAMINATED MATERIALS WITHIN THE PROJECT LIMITS. IN THE EVENT PETROLEUM-CONTAMINATED MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL MANAGE THIS MATERIAL ACCORDING TO THE FOLLOWING NOTES. THE ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK. ALL EXCAVATIONS WITHIN THE AFOREMENTIONED LIMITS SHALL BE PAID FOR UNDER THE ORIGINAL PLAN BID ITEMS.

PETROLEUM CONTAMINATED SOILS NOTES (CONT.)

MATERIAL SAMPLING

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH TEN (10) DAYS NOTICE PRIOR TO BEGINNING ANY EXCAVATION WITHIN THE AFOREMENTIONED LIMITS TO ARRANGE FOR THE NECESSARY SCREENING AND SEGREGATION OPERATIONS. ALL MATERIAL EXCAVATED BY THE CONTRACTOR BY DURING CONSTRUCTION AND WITHIN THE SPECIFIED LIMITS SHALL BE SCREENED, SEGREGATED AND TESTED BY AN INSPECTOR PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

MATERIAL EVALUATION

THE ENGINEER SHALL DETERMINE THE REGULATORY CLASSIFICATION OF THE SPECIFIED EXCAVATED MATERIALS BASED ON TEST RESULTS PROVIDED BY THE CONTRACTOR. THE EXCAVATED MATERIALS MAY BE CLASSIFIED INTO PCS OR INTO MATERIALS WHICH MAY BE USED AS BACKFILL OR OTHER PROJECT PURPOSES, PROVIDED IT MEETS THE APPROPRIATE ODOT SPECIFICATIONS.

ITEM SPECIAL - WORK INVOLVING PETROLEUM CONTAMINATED SOIL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL MATERIALS TO A LICENSED (BY THE LOCAL HEALTH DEPARTMENT) AND PERMITTED (BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY) SOLID WASTE DISPOSAL FACILITY OR A PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (PCSRF) FOR PROPER DISPOSAL OR REMEDIATION. PRIOR TO DISPOSAL. THE CONTRACTOR SHALL CONTACT THE PROPOSED FACILITY TO DETERMINE THE ADDITIONAL TESTING REQUIRED FOR DISPOSAL OR REMEDIATION AT THAT FACILITY. THE PRICES FOR THESE TESTS ARE TO BE INCLUDED IN THE ABOVE PAY ITEM. THE WORK INVOLVED WITH THIS PAY ITEM INCLUDES HANDLING, STORAGE, TESTING (FOR DISPOSAL OR REMEDIATION) AND DISPOSAL OR REMEDIATION OF PCS. WHEN DIRECTED BY THE PROPOSED FACILITY, THE CONTRACTOR SHALL HAVE AN INDEPENDENT LABORATORY COLLECT SAMPLES AND TEST THE EXCAVATED OR STORED MATERIALS FOR PCS DISPOSAL OR REMEDIATION APPROVAL

AS AN ALTERNATIVE, THE ENGINEER MAY PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED MATERIALS FROM THE AFOREMENTIONED LIMITS INTO TRUCKS FOR SUBSEQUENT DISPOSAL APPROPRIATE FOR PETROLEUM CONTAMINATED SOILS AS DETAILED

TEMPORARY STORAGE OF CONTAMINATED SOILS

ALL MATERIALS EXCAVATED BY THE CONTRACTOR BETWEEN THESE LIMITS MAY BE STOCKPILED IN AN AREA PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF THE EXCAVATED MATERIAL IN A LINED AND COVERED ROLL OFF BOX. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF THE EXCAVATED MATERIAL ON AN IMPERMEABLE MEMBRANE. THE MEMBRANE SHALL BE SURROUNDED BY BALES OF STRAW TO PREVENT THE SUSPECTED SOILS FROM COMING IN CONTACT WITH PRECIPITATION AND/OR SURFACE RUNOFF AN IMPERMEABLE MEMBRANE SHALL BE PLACED OVER THE STOCKPILE TO PREVENT CONTACT WITH PRECIPITATION AND/OR SURFACE RUN-OFF. THE ENGINEER MAY ALSO PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED CONTAMINATED MATERIAL INTO TRUCKS UNTIL A DETERMINATION OF PROPOSED USE IS MADE BY THE ENGINEER.

GENERAL NOTES

ALL TRANSPORT VEHICLES USED FOR THE MOVEMENT OF REGULATED SOILS AND/OR WATER SHALL MEET APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. THE CONTRACTOR SHALL MAINTAIN RECORDS (SUCH AS DAILY LOGS, LANDFILL TICKETS MANIFESTS, ETC.) THAT DOCUMENT THE SOURCE, MOVEMENT AND DESTINATION OF EACH TRUCK LOAD OF CONTAMINATED MATERIAL. ONE COPY OF EACH OF THESE RECORDS SHALL BE SUBMITTED TO THE ENGINEER.

BASIS OF PAYMENT

THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO PROPERLY EXCAVATE, STORE, TEST (FOR DISPOSAL) TRANSPORT AND DISPOSE OF CONTAMINATED MATERIALS. INCLUDING ANY REQUIRED APPROVALS OR FEES WITHIN THE SPECIFIED LIMITS. PAYMENT FOR THIS WORK SHALL BE MADE AT THE CONTRACT BID PRICE PER TON AND PER GALLON. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED HEREIN. A CONVERSION FACTOR OF 1.5 TONS PER CUBIC YARD SHALL BE USED TO CONVERT CUBIC YARDS TO TONS:

690E65016 ITEM SPECIAL - WORK INVOLVING PETROLEUM CONTAMINATED SOIL



GTF CAH 05/28/2

100829

BUT-732-3 04

ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 80 CONSECUTIVE CALENDAR DAYS BEGINNING NO EARLIER THAN 4/1/2022, WHEN TRAFFIC IS TO BE DETOURED. MAINTAIN ACCESS TO ALL ADJACENT DRIVES AT ALL TIMES. MAINTAIN TRAFFIC ON REILY-MILLVILLE RD. AT ALL TIMES, EXCEPT ONE LANE OF TWO -WAY TRAFFIC MAY BE MAINTAINED BY THE USE OF FLAGGERS DURING PAVING OPERATIONS.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.]



W20-H14

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE										
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC								
RAMP & ROAD CLOSURES	> 2 WEEKS	14 CALENDER DAYS PRIOR TO CLOSURE								
	> 12 HOURS < 2 WEEKS	7 CALENDER DAYS PRIOR TO CLOSURE								
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE								

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

S.R. 732 JUST NORTH OF STILLWELL RD. INTERSECTION S.R. 732 JUST NORTHEAST OF REILY-MILLVILE RD. INTERSECTION STILLWELL RD. JUST EAST OF THE S.R. 732 INTERSECTION

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614. MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE

ITEM 614, DETOUR SIGNING

THE CONTRACTOR SHALL PROVIDE. MAINTAIN. AND SUBSEQUENTLY REMOVE ALL DETOUR SIGNING AND SUPPORTS AS SHOWN ON SHEET 4 AND ON STANDARD CONSTRUCTION DRAWING MT-101.60. ALL WORK SHALL BE PAID FOR UNDER ITEM 614, DETOUR SIGNING

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

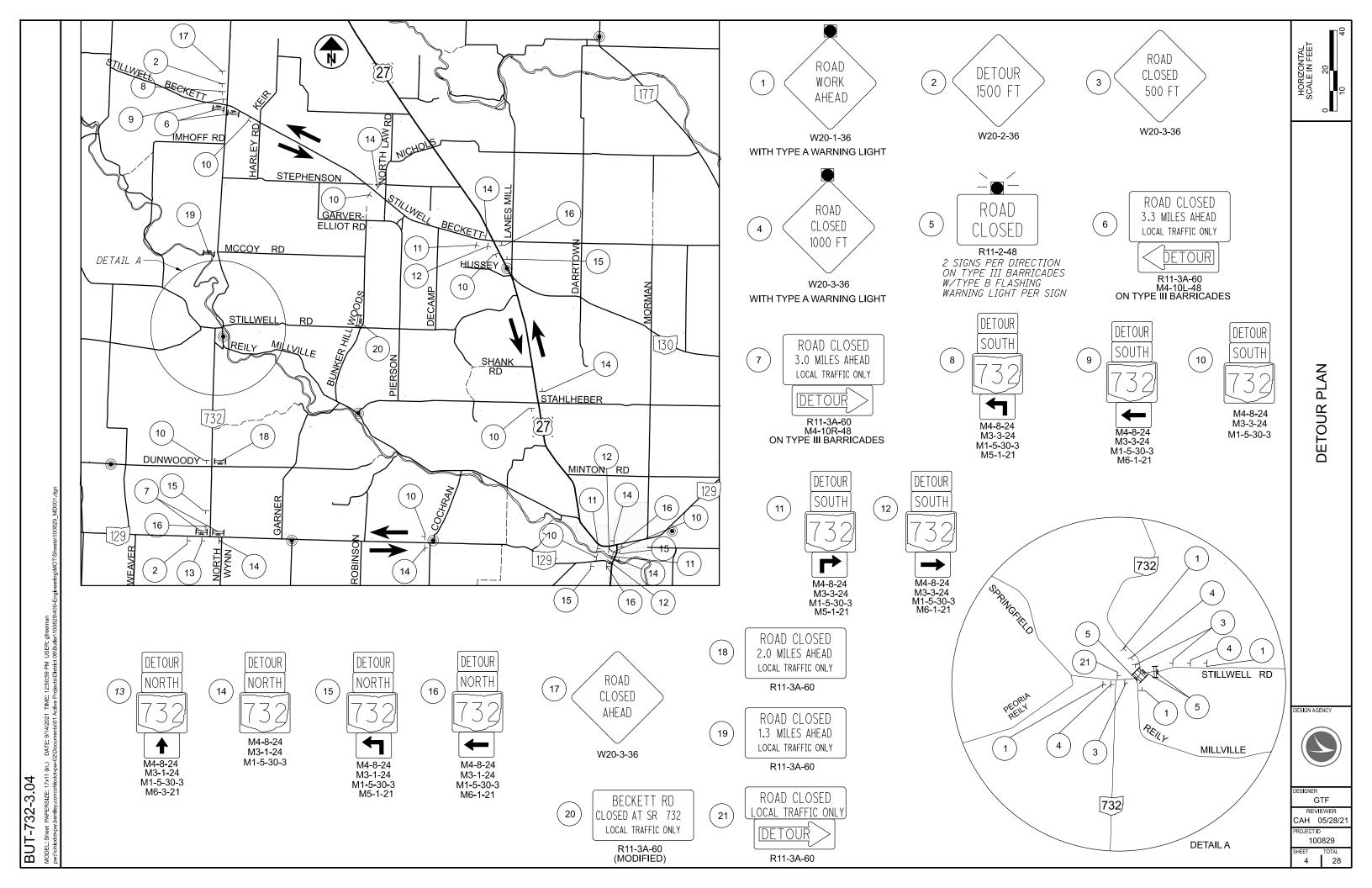
NOTIFICATION TIME TABLE									
ITEM	DURATION OF	NOTICE DUE TO							
I I EMI	CLOSURE	LISTED CONTACTS							
	>= 2 WEEKS	21 CALENDAR DAYS							
	>= 2 WEEKS	PRIOR TO CLOSURE							
RAMP & ROAD	> 12 HOURS &	14 CALENDAR DAYS							
CLOSURES	< 2 WEEKS	PRIOR TO CLOSURE							
	< 12 HOURS	4 BUSINESS DAYS							
	< 12 HOURS	PRIOR TO CLOSURE							
	>= 2 WEEKS	14 CALENDAR DAYS							
LANE CLOSURES &	>= 2 WEENS	PRIOR TO CLOSURE							
RESTRICTIONS	< 2 WEEKS	5 BUSINESS DAYS							
	~ Z WEEKS	PRIOR TO CLOSURE							
START OF		14 CALENDAR DAYS							
CONSTRUCTION &	N/A	PRIOR TO							
TRAFFIC PATTERN	IV/A	IMPLEMENTATION							
CHANGES		INFLEMENTATION							

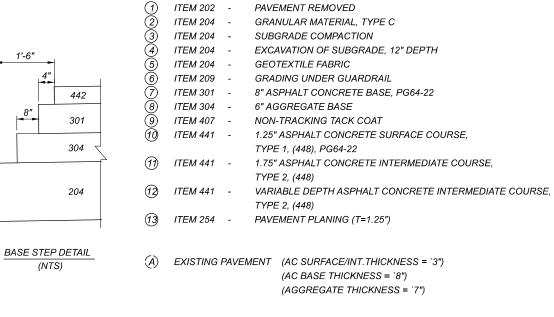
ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME



GTF CAH 05/28/21 100829

3 28





LEGEND

ITEM 202 -

ITEM 204 -

ITEM 204 -

PAVEMENT REMOVED

GRANULAR MATERIAL, TYPE C

SUBGRADE COMPACTION

										PA'	VEMENT CALCUL	ATIONS				-									
					202	202	204	204	204	204	209		254	301	304	407				441					
ROUTE	STA	TION	ENGTH	PAVEMENT AREA	PAVEMENT	APPROACH SLAB REMOVED	GRANULAR MATERIAL, TYPE	SUBGRADE COMPACTION	EXCAVATION OF SUBGRADE, 12"	GEOTEXTILE FABRIC	RESHAPING UNDER	PL/ ASI	EMENT ANING PHALT ICRETE	8" ASPHALT CONCRETE BASE, PG64-	6" AGGREGATE	NON TRACKING TACK COAT	SURFACI	LT CONCRETE E COURSE, TYPE 48), PG64-22	INTERME	T CONCRETE DIATE COURSE, PE 2, (448)	ASPHALT CONCRET INTERMEDIATE COURSE, TYPE 2, (44 (VARIABLE THICK.)		INTERMEDIATE COURSE, TYPE 2, (
ROUTE	FROM	ТО	1		REMOVED	SLAB REWOVED	С	COMPACTION	DEPTH	FABRIC	GUARDRAIL	DEPTH		22	BASE	@ 0.09 GAL/SQ YD	THICK- NESS		THICK- NESS		AVE. THICK- NESS				
			FT	SQ YD	SQ YD	SQ YD	CU YD	SQ YD	CU YD	SQ YD	MILE	INCHES	SQ YD	CU YD	CU YD	GAL	INCHES	CU YD	INCHES	CU YD	INCHES	CU YD			
BUT SR 732	11+28.20	11+89.42	61	181							0.02	1.25	181			32.5	1.25	6			4.25	21	PROFILE ADJUSTMENT		
BUT SR 732	11+89.42	12+11.41	22	78	78		33	98	33	98	0.01			18	15	21.0	1.25	3	1.75	4			FULL DEPTH AC PAVEMENT		
BUT SR 732	12+11.41	12+36.39	25	89		89	37	110	37	110	0.01				17								REAR APPROACH SLAB		
BUT SR 732	12+36.39	13+40.61	104	0																					
BUT SR 732	13+40.61	13+61.32	21	95		95	39	117	39	117	0.01				18								FORWARD APPROACH SLA		
BUT SR 732	13+61.32	13+91.85	31	90	90		37	111	37	111	0.01			21	17	24.2	1.25	3	1.75	4			FULL DEPTH AC PAVEMENT		
BUT SR 732	13+91.85	14+20.00	28	103							0.01	1.25	103				1.25	4			1.00	3	PROFILE ADJUSTMENT		
REILLY-MILLVILLE	00+10.35	00+40.00	30	183							0.01	1.25	183			32.9	1.25	6			3.00	15	PROFILE ADJUSTMENT		
DRIVE	00+16.79	00+25.00	8	12							0.01	1.25	12			2.2	1.25	1			3.00	1	PROFILE ADJUSTMENT		
STILLWELL	00+13.57	00+40.00	26	75	75		32	97	32	97	0.01			18	15	20.3	1.25	3	1.75	4			FULL DEPTH AC PAVEMENT		
TOTALS CA	RRIED TO	O GENER	RAL SU	JMMARY	243	184	178	534	178	534	0.10		479	57	83	265		26		12		41			

PROFILE ADJUSTMENT

SAME OPPOSITE / SIDE

TRAFFIC LANES

EDGE OF TRAVELED WAY

SHOULDER

FULL DEPTH AC PAVEMENT

TRAFFIC LANES

SAME

BUT-732-3.04

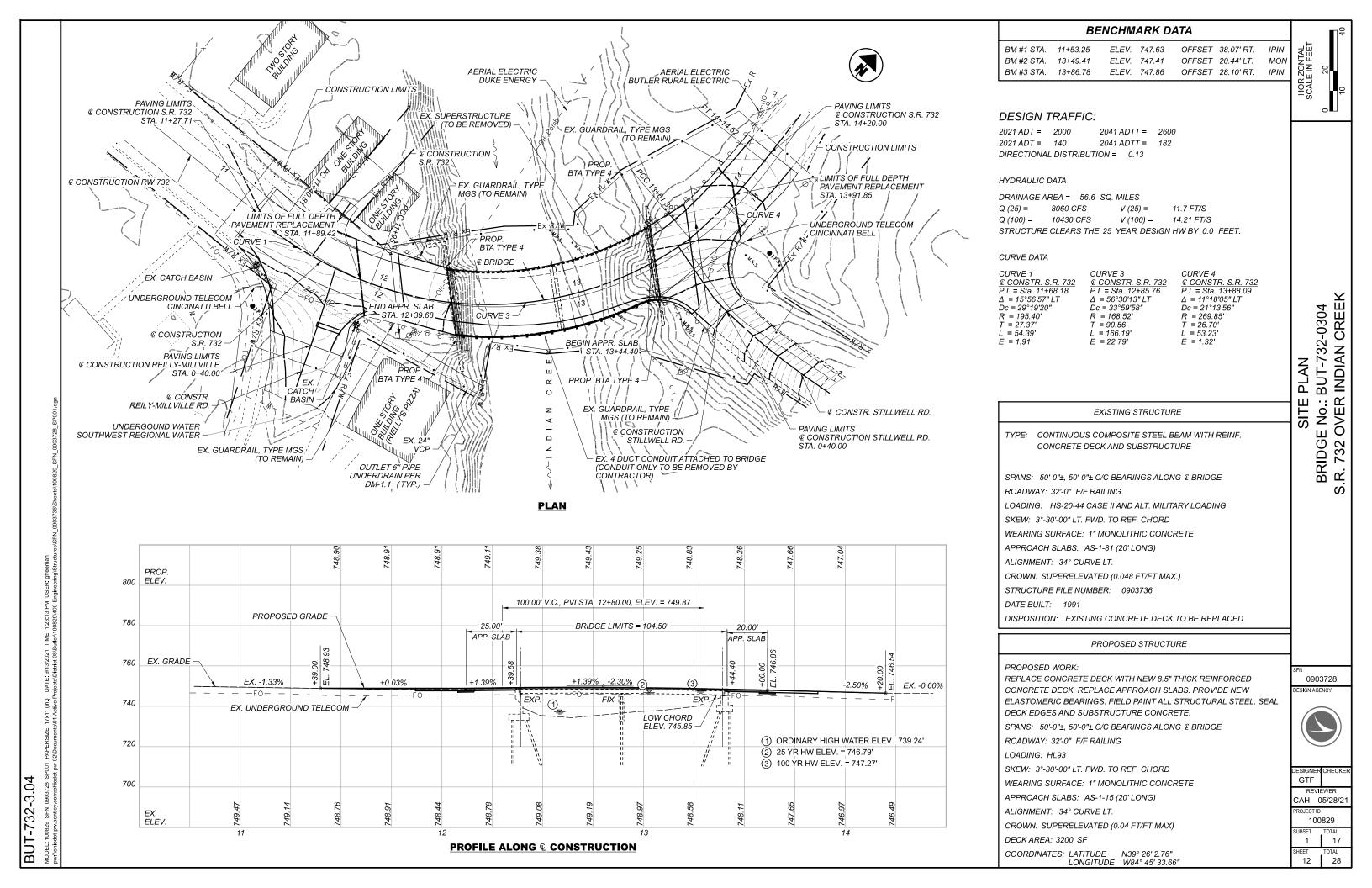
OPPOSITE SIDE

EDGE OF TRAVELED WAY

SHOULDER



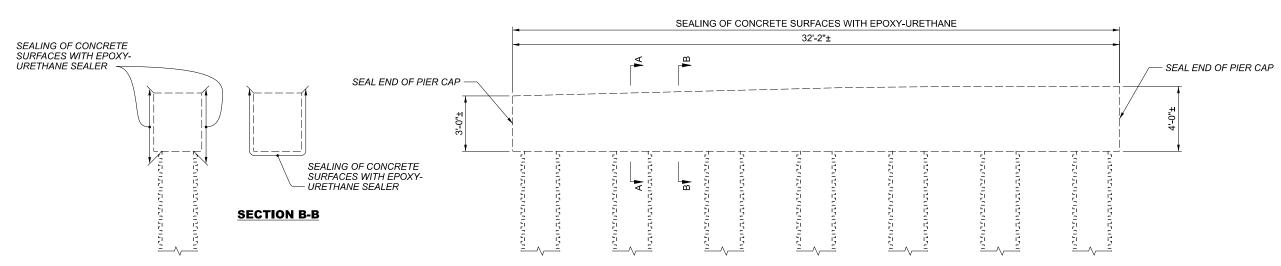
GTF CAH 05/28/21 100829 SHEET TOTAL 6 28





DESIGNER GTF	CHECKER
CAH 0	WER 05/28/21
PROJECT ID 100	829
SUBSET 4	17
SHEET 15	TOTAL 28

				ESTIMATED QUANTITIES - STRUCTURE No.: BUT-732-0304 (01/STR/BR FUNDING SPLIT)				
ITEM	EXTENSION	TENSION TOTAL UNIT		DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.
202	11203	3 LS LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN			LUMP	
503	11100	LS	LS	COFFERDAMS AND EXCAVATION BRACING				LUMP
509	10000	35977	LB	EPOXY COATED REINFORCING STEEL	765		35212	
509	20001	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	100			
510	10001	59	EACH	DOWEL HOLES, AS PER PLAN	59			
511	53014	93	CY	CLASS QC3 CONCRETE, MISC.: SUPERSTRUCTURE CONCRETE WITH QC/QA, AS PER PLAN			93	
511	53014	4	CY	CLASS QC3 CONCRETE, MISC.: SUBSTRUCTURE CONCRETE WITH QC/QA, AS PER PLAN	4			
512	10101	208	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN (PERMANENT GRAFFITI PROTECTION)	137	29	42	
512	74000	50	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	50			
513	10200	1812	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF			1812	
513	20000	480	EACH	WELDED STUD SHEAR CONNECTORS			480	
514	00050	5052	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			5052	
514	00056	5066	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			5,066	
514	00060	5066		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			5,066	
514	00066	5066	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			5,066	
514	00504	8	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			8	
514	10000	5	EACH	FINAL INSPECTION REPAIR			5	
516	11210	70	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL			70	
516	13600	4	SF	1" PREFORMED EXPANSION JOINT FILLER	4			1
516	44300	5	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (T=4.073")	5			
516	47001	LS	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LUMP
518	22300	195	FT	SPECIAL - STEEL DRIP STRIP			195	
517	72200	206.25		RAILING (DEEP BEAM RAIL WITH STEEL TUBULAR BACKUP AND TYPE 1 STEEL POSTS AND ANCHOR BOLTS)			206.25	
526	15011		SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=13"), AS PER PLAN				95
526	25011	89	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN				89
526	90010		FT	TYPE A INSTALLATION				90
846	00110	26	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM				26



DATE: 9/13/2021 TIME: 12:01:23 PM USER: gfreeman VDocuments/01 Active Projects\District 08\Butler\100829 BUT-732-3.04
MODEL: Sheet PAPERSIZE: 17x1 (in

SECTION A-A

PIER CAP SEALING LIMITS ELEVATION

BEARING ELASTOMERIC BEARING 13" WIDE x 18" LONG WITH **€** BEAM STEEL LOAD PLATE 1'-0" 1'-0" **€** BEARING ABUTMENT SEAT LAMINATED ELASTOMERIC PAD **PLAN** BEAM **EXPANSION BEARING**

FORWARD ABUTMENT BEARING DETAIL

FORWARD ELASTOMERIC PAD DATA FOR EXISTING BEAMS												
		ELASTOMERIC PAD							REACTIONS		5 ^	
	SUB- STRUCTURE	T INT	NO. OF INTER.	NTER. ti	te	STEEL LAMINATES		YPE	DEAD LOAD (KIPS)	LIVE * LOAD (KIPS)	AAXIMUN DESIGN LOAD (K)	
			LAYERS			NO.	THICK.	<u> </u>			_	
BUT-732-0304	FWD. ABUT.	4.073"	5	0.625"	0.250"	6	0.0747"	EXP.	24.01	31.51	55.52	

REQ'D LOAD P

THICKNESS AT Q

BEARING (TOP)

1.25"

1 00"

1.00"

1.00"

FORWARD ABUTMENT ELASTOMERIC BEARING PAD DATA

PROPOSED BEARING

THICKNESS

4 073"

4.073"

4.073"

4.073"

4.073"

* W/O IMPACT

REQ'D MASONARY P

THICKNESS AT Q

BEARING

.875"

.875"

.875"

.875"

.875"

20"

18"

26"

6½"

61/2"

GRADE 50 STEEL

LOAD PLATE

15" 13"

ti = THICKNESS OF INTERNAL ELASTOMER LAYER

te = THICKNESS OF EXTERNAL ELASTOMER LAYER

FIELD MEASURED

BEARING HEIGHT

+6.50"

±6.25"

±6.25"

±6.25"

±6.00"

GRADE 50 STEEL ₽ BEAM LOAD PLATE WITH ELASTOMER VULCANIZED BONDED TO THE SURFACE TOTAL THICKNESS OF LAMINATED ELASTOMERIC BEAM SEAT ELASTOMERIC PAD 18" 32" **SECTION A-A**

STEEL LOAD PLATE	1:	5"	I
	7½"	7½"	
DIM. C] /

STEEL MASONARY PLATE

SECTION B-B

LAMINATED

PAD

DIM. D

ELASTOMERIC

ITEM 516 - ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATES (NEOPRENE), AS PER PLAN

ELASTOMERIC BEARINGS: THE ELASTOMER SHALL HAVE A HARDNESS OF 60 DUROMETER. THE BEARINGS WERE DESIGNED UNDER DIVISION I, SECTION 14.6.6 (METHOD A) OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

WELDING: CONTROL WELDING SO THAT THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACE DOES NOT EXCEED 300° F AS DETERMINED BY USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.

BEARING REPOSITIONING: IF STEEL IS ERECTED AT AN AMBIENT TEMPERATURE HIGHER THAN 80° F OR LOWER THAN 40°F AND THE BEARING SHEAR DEFLECTION EXCEEDS 1/6 OF THE BEARING HEIGHT AT 60° F (±) 10° F, THE BEAMS SHALL BE RAISED TO ALLOW THE BEARINGS TO RETURN TO THEIR UNDEFORMED SHAPE AT 60° F (±) 10° F.

STRUCTURAL STEEL FOR BEARING LOAD PLATE, MASONRY PLATE, AND SHIMS SHALL BE A709 GRADE 50 AND INCLUDED ITEM 516 FOR PAYMENT. ALL STRUCTURAL STEEL USED FOR THE PROPOSED BEARING SHALL BE FIELD PAINTED PER OZEU. PAINT COLOR SHALL BE FEDERAL COLOR 14277 AND BE INCLUDED IN ITEM 514 FOR PAYMENT.

THE CONTRACTOR IS REQUIRED TO FIELD VERIFY THE EXISTING BOTTOM OF BEAM AND BEAM SEAT ELEVATIONS PRIOR TO JACKING OPERATIONS. THE CONTRACTOR IS TO SUBMIT THE VERIFIED ELEVATIONS TO THE DISTRICT 8 BRIDGE ENGINEER PRIOR TO JACKING. APPROVAL OF THE ELEVATIONS IS NOT REQUIRED.

ANY BEARING HP-SECTION HEIGHTS OR DIMENSIONS SHOWN SHALL BE CONSIDERED APPROXIMATE AND ARE SHOWN FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THE HEIGHT OF REQUIRED BEARING ASSEMBLY AND THICKNESS OF ANY ADDITIONAL SHIMS BY MEASURING THE DISTANCE BETWEEN THE BEAM SEAT ELEVATION AND THE BOTTOM OF THE EXISTING BEAM FLANGE AND THEN SUBTRACTING FROM THAT DISTANCE THE THICKNESS OF THE BEARING AND LOAD PLATES. EACH BEARING ASSEMBLY SHALL HAVE A MAXIMUM OF ONE SHIM. STACKING OF MULTIPLE SHIMS ARE NOT PERMITTED.

ANY PLATE THICKNESS ADJUSTMENTS AND/OR SHIMS REQUIRED TO COMPLETE THE BEARINGS INSTALLATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. A MAXIMUM OF ONE SHIM PLATE SHALL BE ALLOWED PER BEARING.

IN ADDITION TO THE REQUIREMENTS OF 516 AND THE DETAILS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL ASSURE THAT THERE IS A SNUG FIT BETWEEN THE BEARING DEVICE AND BEARING SEAT. THE CONTRACTOR SHALL ASSURE THAT NO BEAMS OR BEARING DEVICES ARE FLOATING.

SET MASONARY PLATES ON BRIDGE SEATS THAT ARE FLAT AND SMOOTHLY FINISHED. IF THE BRIDGE SEAT AREA IS UNEVEN, USE A BUSHHAMMER OR GRINDER FOLLOWED BY A THIN FILM OF PORTLAND CEMENT MORTAR OR PASTE TO FILL THE PITTED SURFACE TO BRING THE SEAT AREA TO THE PROPER ELEVATION AND PROVIDE A LEVEL, EVEN SURFACE.

BASIS OF PAYMENT: THE UNIT PRICE BIDS SHALL INCLUDE ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL THE LAMINATED ELASTOMERIC BEARINGS WITH STEEL LOAD PLATES INCLUDING GRINDING OF WELDS. PAYMENT WILL BE MADE AT THE CONTRACT PRICE FOR ITEM 516 - ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN.

BEAM No.

BUT-732-3 04

GTF CAH 05/28/21 100829

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